

## Former Plainwell Impoundment Time-Critical Removal Action Weekly Construction Update

**Progress Report #73—November 24, 2008**

### **Work Completed: November 13 – November 19, 2008**

- Completed demobilizing and decommissioning activities at Staging Area 5S. Work included loading, transporting, and disposing of the geosynthetic liner system and the protective aggregate layer.
- Continued post-construction activities in Removal Area 13B, including final grading and topsoil placement.
- Continued removing soil and sediment from Removal Area 13A.
- Continued solidifying soil and sediment at Staging Areas 4N.
- Continued loading and transporting solidified soil/sediment material from Staging Area 4N to Allied Waste's C&C Landfill and Ottawa County Farms Landfill.
- Continued decommissioning the WCS including removing sections of the catwalk, cross bracing, steel H-Piles, and steel sheeting.
- Continued drilling activities associated with the groundwater investigation/monitoring program.
- Began post-construction activities in Removal Area 13A.

Estimated Weekly Volume Hauled to TSCA and Non-TSCA Landfill Facilities				
Date	Estimated Quantity TSCA-material (cubic yards)	Number of Truck Loads TSCA-material	Estimated Quantity Non-TSCA material (cubic yards)	Number of Truck Loads Non-TSCA material
Weekly Total	875	0	2,555	73
2008 Total	16,065	459	61,250	1,750
Project Total to Date	19,075	545	97,265	2,779

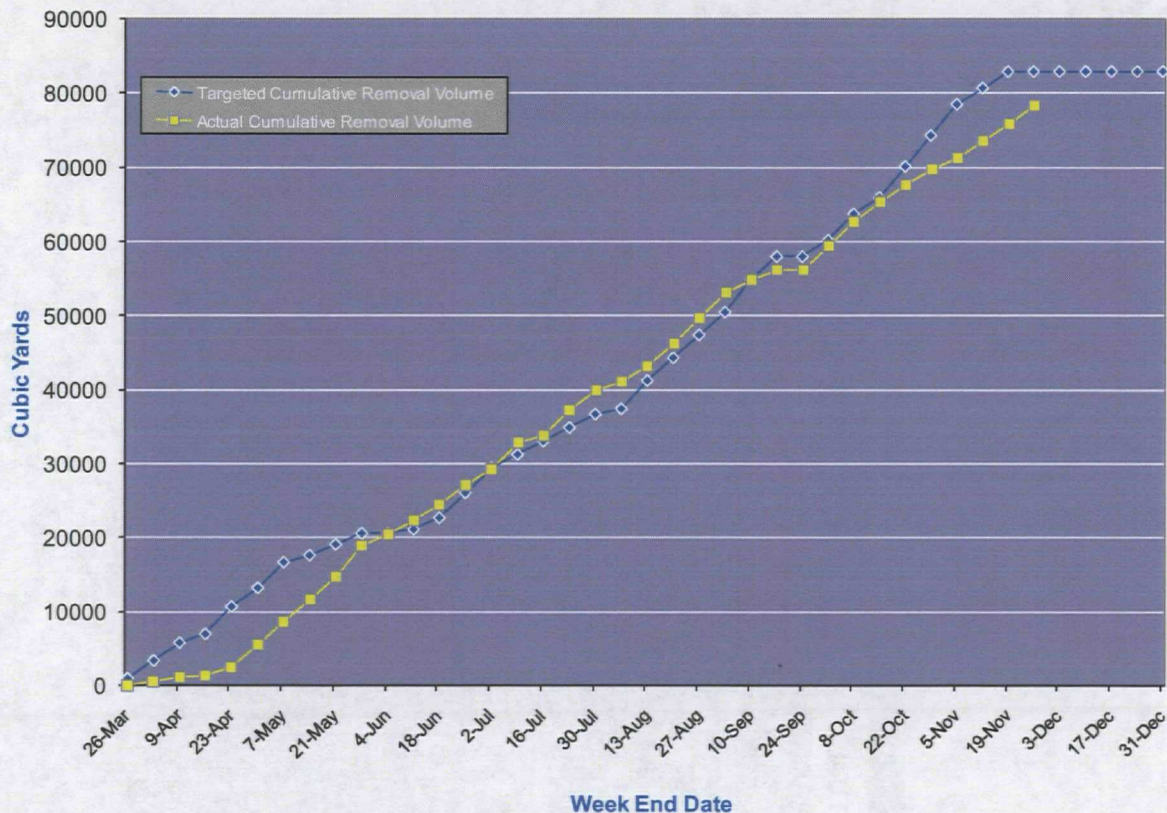
Note: All values are unofficial, estimated quantities, subject to revision/verification.



***Work Planned: November 20 – November 26, 2008***

- Continue excavating soil and sediment from Removal Area 13A.
- Continue excavating soil and sediment from behind the Phase 2 Cofferdam.
- Continue solidifying soil/sediment at Staging Area 4N.
- Continue loading and transporting solidified soil/sediment material from Staging Area 4N to Allied Waste's C&C Landfill and Ottawa County Farms Landfill.
- Continue decommissioning the WCS including removing sections of the catwalk, cross bracing, steel H-Piles, and steel sheeting.
- Continue post-construction activities in portions of Removal Area 13A, including topsoil installation.
- Continue post-construction activities in Removal Area 13B.
- Begin final grading activities on the island downstream of the Plainwell Dam existing spillway.

## Removal Progress



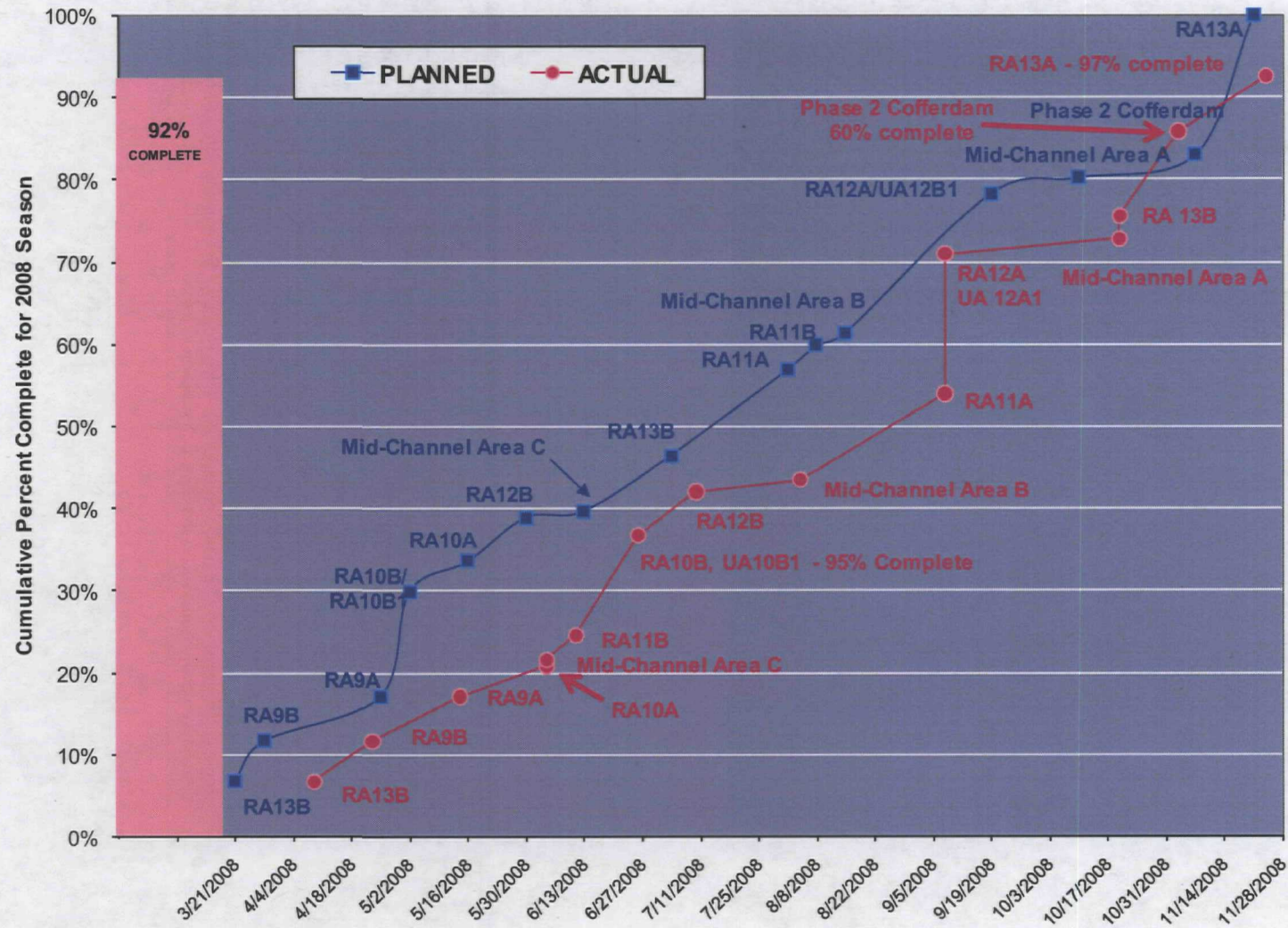
### Notes:

Targeted volumes are neat and subject to change due to additional excavation done at request of USEPA.

Actual volumes removed below the targeted volumes potentially due to the conservative estimation methodology used to develop targeted figures and due to the actual topographic conditions encountered at the site, which could result in smaller volumes needing to be removed than originally estimated. The targeted volumes have been increased by 10% to account for additional material that could be removed as a result of over-excavation and additional removal in response to confirmation sampling. Soil/sediment removal activities are on schedule based on the ARCADIS BBL ES 4/30/07 Plainwell TCRA Construction Schedule.

In Plainwell Weekly Construction Reports published between July 14 and October 13, 2008 (Reports #55 through #67), this graph incorrectly depicted the cumulative removal volume. During that period, the incremental increase added each week reflected only additional TSCA material removed, rather than total volume removed to date. Beginning with Report #68 on October 20, 2008 this Removal Progress graph now correctly displays total cumulative volume removed in the 2008 construction season.

**Removal Progress**



**Notes:**

For Areas where removal is less than 100% complete, the data point shown is an estimate based on area and volume considerations.

'Complete' is defined as removal of all targeted materials as detailed in the Plainwell TCRA Design Report.

***Health & Safety Update***

- 5 Loss Prevention Observations (LPOs) were completed during this period.  
A total of 260 LPOs have been completed for the project to date.

***Weather Summary***

- No weather delays encountered.

***Environmental Monitoring and Construction Quality Assurance Testing***

**Resuspension/Turbidity Monitoring:**

Testing Performed this Week? No ☐ Yes ☒

Exceedances? N/A ☐ No ☒ Yes ☐ If yes, explain:

**Dewatering System Discharge Monitoring:**

Discharge Flow: 21,287 gallons (Staging Area 4N) and 0 gallons (Staging Area 5S)

Testing Performed this Week? No ☐ Yes ☒

Exceedances? N/A ☐ No ☒ Yes ☐ If yes, explain:

**Excavation Verification Sampling:**

Testing Performed this Week? No ☒ Yes ☐

Cleanup Standard Achieved? N/A ☒ Yes ☐ No ☐ If no, explain:

***Issues Encountered/Solutions Advanced***

- None

**Former Plainwell Impoundment  
Time-Critical Removal Action  
Weekly Construction Update  
Progress Report #73  
Page 6 of 9**

***Equipment on Site***

Equipment	11/13/08	11/14/08	11/15/08	11/16/08	11/17/08	11/18/08	11/19/08
Komatsu PC-300 Excavator	3	3	3	3	3	3	3
Komatsu PC-300 HD Long Reach	2	2	2	2	2	2	2
Komatsu PC-200 Excavator	-	-	-	-	-	-	-
John Deere JD-50 Mini-Excavator	1	1	1	1	1	1	1
John Deere JD-450 Dozer	1	1	1	1	1	1	1
John Deere JD-700 Dozer	-	-	-	-	-	-	-
Komatsu D37 Dozer	1	1	1	1	1	1	1
Komatsu D61 Dozer	1	1	1	1	1	1	1
Komatsu D65 Dozer	-	-	-	-	-	-	-
Volvo P-180 Loader	1	1	1	1	1	1	1
Komatsu 380 loader	1	1	1	1	1	1	1
CAT 328 Loader (King)	1	1	1	1	1	1	1
FAVCO 40-ton Crane	1	1	1	1	1	1	1
40' Self Propelled Work Barge	1	1	1	1	1	1	1
American 80-ton Crane (King)	1	1	1	1	1	1	1
2,000 Gallon Water Truck	1	1	1	1	1	1	1
Smooth Drum Roller	-	-	-	-	-	-	-
John Deere Skidsteer	1	1	1	1	1	1	1
Vermeer Chipper	-	-	-	-	-	-	-
Komatsu 400 Articulating Dump Truck	2	2	2	2	2	2	2

**Former Plainwell Impoundment  
Time-Critical Removal Action  
Weekly Construction Update  
Progress Report #73  
Page 7 of 9**

***Personnel, Regulatory Staff, and Visitors on Site***

Individual/Affiliation	11/13/08	11/14/08	11/15/08	11/16/08	11/17/08	11/18/08	11/19/08
Terra Contracting Staff	20	20	8		20	20	20
Jim Saric/USEPA							
Michael Berkoff/USEPA							
Sam Borries/USEPA							X
Mike Ribordy/USEPA OSC	X						X
Karl Gustavson/US ARMY ERDC							
Paul Bucholtz/MDEQ							X
Judith Gapp/MDEQ							
Todd Goeks/NOAA							
John Lerg/MDNR							X
Sharon Hanshue/MDNR							X
Chris Frieburger/MDNR							
Weston Contractors	X	X			X	X	X
CDM Contractors							X
Chase Fortenberry/KRSG							
Mark Brown/KRSG							
David Guier/KRSG							X
Gary Griffin/KRSG							X
Chuck Barnes/ARCADIS							
Steve Garbaciak/ARCADIS							
Anthony Esposito/ARCADIS							
Micki Maki/ARCADIS							
Scott Harcus/ARCADIS							
Matt Bowman/ARCADIS							X
EJ Suardini/ARCADIS	X						X
Mike Kohagen/ARCADIS	X	X	X		X	X	X
Michelle Rumler/ARCADIS					X	X	X
Joe Willoughby/ARCADIS	X	X	X		X	X	X
Ron Kuhn/ARCADIS	X	X			X		
Nick Harmer/ARCADIS					X	X	X
MDEQ Sample Team							
<i>Other Subcontractors (Specify)</i>							
King Co.	5	5	5		5	5	5
JF New							

**Former Plainwell Impoundment  
Time-Critical Removal Action  
Weekly Construction Update  
Progress Report #73  
Page 8 of 9**

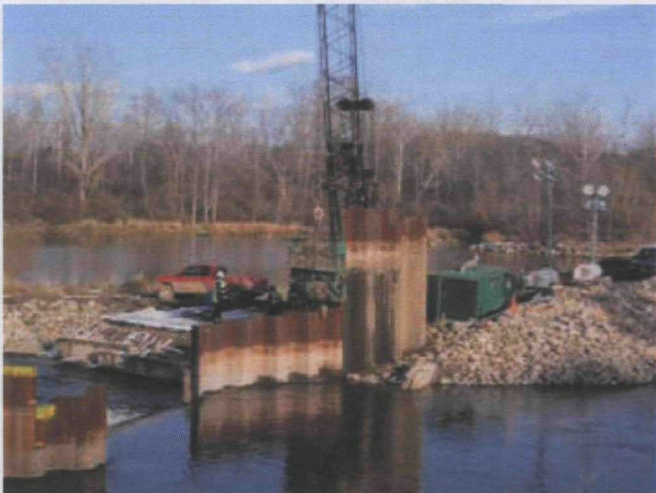
*Photos from November 13 – November 19, 2008*



Installing topsoil in Removal Area 13B.



Installing topsoil in Removal Area 13A.

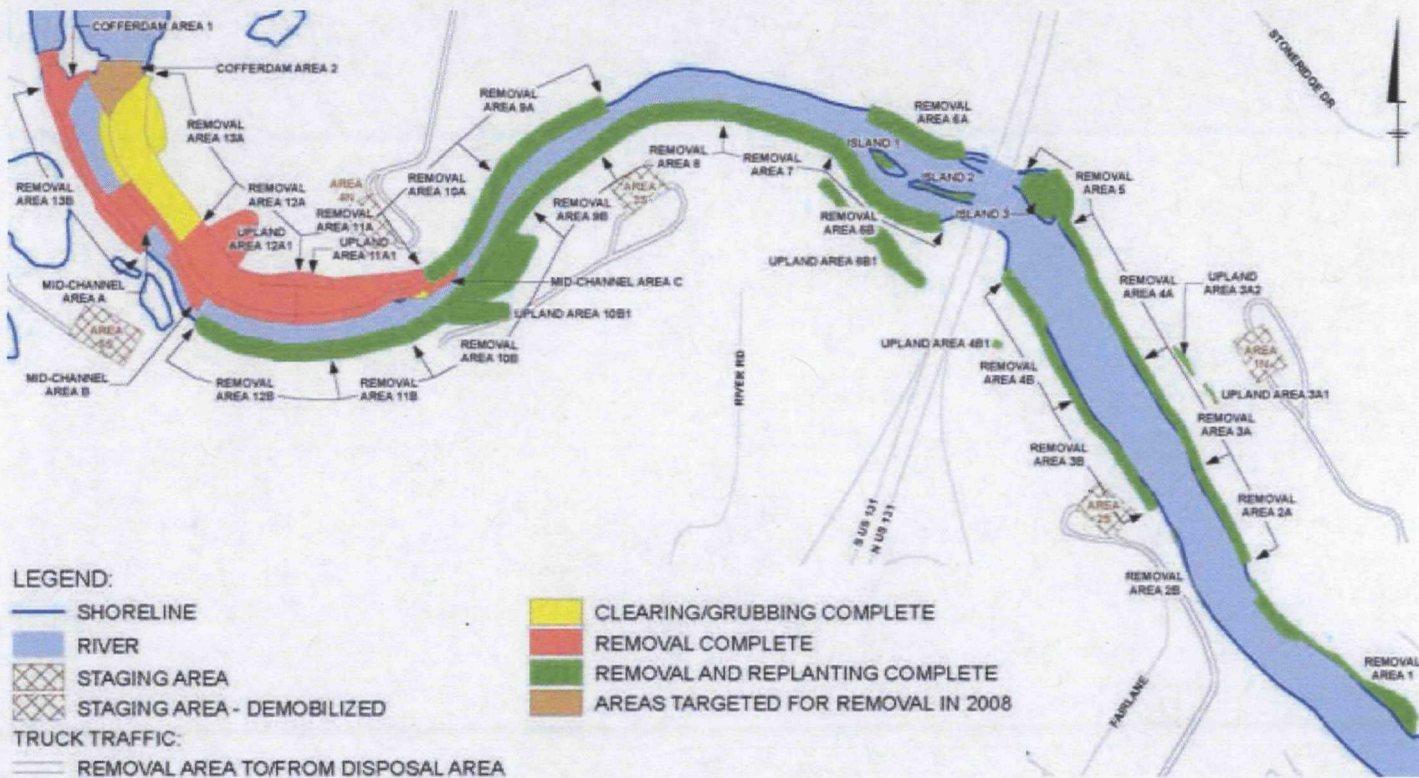


Decommissioning the Water Control Structure.



Excavating soil and sediment from Removal Area 13A.

### Targeted Removal Areas – Former Plainwell Impoundment



Notes:

All dimensions and features represented on this map are approximate. Actual locations of access roads and staging areas and final boundaries of removal areas will be determined at the time of construction.